

APR 01 2005

CERTIFICATE OF FACSIMILE TRANSMISSION	
I hereby certify that this correspondence is being transmitted to the U.S. Patent & Trademark Office in accordance with 37 CFR § 1.6(d) on the date indicated.	
_____ Name	_____ Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Choy-Pik Chiu & Robert Kay

Art Unit: 1636

Filing Date: November 21, 2001

Examiner: Quang Nguyen, Ph.D.

Serial No: 09/990,522

Docket: 097/002

Title: TOLERIZING ALLOGRAFTS OF
PLURIPOTENT STEM CELLS**SECOND DECLARATION UNDER 37 CFR § 1.132****BY JOSEPH D. GOLD, Ph.D.**Commissioner for Patents
Alexandria VA 22313

Dear Sir:

I, JOSEPH GOLD, do hereby declare as follows:

I am Associate Director of Stem Cell Biology and project leader of the Cardiovascular Disease project at Geron Corporation. I have already given an expert Declaration in support of this patent application.

I understand the Examiner has now questioned whether the animal experiments described in my previous Declaration are relevant to what is disclosed in the patent application, in view of potential differences in which the cells were prepared.

PATENT
09/990,522
Docket 097/002

We continue to refine the process by which we differentiate human embryonic stem cells into cardiomyocytes. Geron Corporation's aim is to produce cardiomyocytes as a commercial product for regenerative medicine. Improving the efficiency of differentiation brings down the projected cost of the product, which would help make cell therapy affordable by more patients having heart disease.

However, refinements in the production process does not cause a cardiomyocytes obtained by the process to change in character. Individual cardiomyocytes generated using 5-azacytidine according to this patent application for immunotolerance, or according to Xu's original patent application for cardiomyocytes (USSN 60/305,087), or according to the subsequent publication by Xu et al. (Circ Res. 91(6):501-8, 2002), or as described in my previous Declaration, or according to our most recent cardiomyocyte patent application (PCT/US2005/009081) appear to be the same.

Specifically, cells from any of these differentiation procedures undergo spontaneous contraction. They also have classic markers of cardiomyocytes, such as cardiac alpha myosin heavy chain (α -MHC), detectable by real-time PCR; and cardiac troponin I (cTnI), detectable by immunocytochemistry. No assay we have used is able to distinguish between cardiomyocytes made according to any of these methods.

I hereby declare that all statements made in this Declaration of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

4/1/05
Date

Joseph D. Gold, Ph.D.
Menlo Park, California



GERON CORPORATION

230 Constitution Drive
Menlo Park, CA 94025
Telephone: 650 473-7700
Facsimile: 650 473-7750

Facsimile Transmittal Sheet

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, AND/OR EXEMPT FROM DISCLOSURE BY APPLICABLE LAW OR COURT ORDER. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA THE U.S. POSTAL SERVICE. THANK YOU.

USSN 09/990,522

LAST PAGE